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said primary control element based on the order of frequencies received.

Please add the following new claims:

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41. A well control system, comprising:

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a primary control element operating in a well system;

3

at least one transmitter for sending a predetermined plurality of frequencies over

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the air;

5

at least one signal receiver for receiving a signal from said transmitter to provide

6

an output;

7

at least one signal processor to receive the output of said receiver and to generate

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a command signal to said control element; and

9

said processor discriminates for said frequencies and generates an output signal to

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said primary control element based on the order of the frequencies received.

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42. The apparatus of claim 41, wherein:

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said transmitter sends a plurality of frequencies spaced in time;

3

at least one of said frequencies serving a dual purpose of being first part of a

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received signal sent to said processor to allow said processor to issue an output signal to

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operate a primary controlled element, and second to act as a cue to said processor that an

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incoming multiple frequency signal is about to come or has concluded.

1

43. The apparatus of claim 42, wherein:

2

at least a first and second frequency serve a dual purpose and are part of a

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sequence of signals that triggers an output from said processor;

4 said first frequency is first in time and cues said processor that a
5 multifrequency signal is fully transmitted, thus triggering said processor to issue an
6 output signal for actuation of the primary controlled element.

1 (b) 44. The apparatus of claim 43, wherein:

2 said receiver further comprises a self-contained power supply;

3 interlock means on said power supply to prevent actuation of the primary

4 controlled element unless a preset value of power exists for a preset time.

REMARKS

The Applicant has carefully reviewed the Office Action mailed on February 18, 1997. The claims have been amended for the purposes of explication and clarity. No new matter has been added.

THE REJECTIONS UNDER 35 U.S.C. § 102

The Examiner has rejected claims 35-38 under 35 U.S.C. § 102(b) as being anticipated by Zimmerman et al, Simpson et al, Shimizu et al, or Clark et al.

Claim 35 has been amended to claim a primary control element operating in a system and a transmitter which transmits a predetermined plurality of frequencies used in actuating the primary control element. Severe damage to the remote system could result if the control element were actuated prematurely (i.e. reception of interference by the sensors which causes the actuation of a solenoid and a plug dropping head). Claims 36-38 have also been rejected as being anticipated by the references referred to below. However, in light of the amendment of claim 35,